



PHYSICS >> Work and Energy

Q 1

Work done on a ceiling fan by gravity is

A

maximum

B

zero

C

minimum

D

infinity

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Q 2

The displacement has:...

A

magnitude only

B

direction only

C

magnitude and direction

D

no unit

1

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Q 3

The greek word "xeros" and "graphos" means:...

A

sharp graphics

B

dry writing

C

wet writing

D

wet graphics

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Q 4

What will happen in a time of 7 hours, if a radioactive substance has an average life of 7 hours?

A

Half of the active nuclei decay

B

less half of the active nuclei decay

C

more than half of the active nuclei decay

D

total nuclei decay

3

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Q 5

Iodine-131 is used to trace which cancer

A

lungs

B

thyroid gland

C

breast

D

liver

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Q 6

An apparatus which is used to measure current voltage and resistance

A

Multimeter

B

Ammeter

C

Galvanometer

D

Voltmeter

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Q 7

For atomic spectra, atomic gas or vapor at pressure which is much ____ than atmospheric pressure is excited

A

greater

B

greater than equal to

C

less

D

none of these

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Q 8

A fraction of internal energy is due to the molecular vibration, which is different in different states of matter. Which of the following gives the correct order of fraction of internal energy due to molecular vibration?

A

solid > gas > liquid

B

gas > liquid > solid

C

solid > liquid > gas

D

gas > liquid > solid

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Q 9

A particle is performing uniform circular motion has constant:

A

velocity

B

acceleration

C

position

D

momentum

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Q 10 The direction of the restoring force is always towards:

- A right hand
- B up ward
- C rest or mean position
- D extreme position

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Q 11 Magnetic induction is also called

- A flux
- B magnetization
- C magnetic intensity
- D flux intensity

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Q 12 For clockwise rotations direction of angular velocity is

A positive

B negative

C zero

D infinite

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Q 13

If 110 J heat is added to the system and 40J work is done, then amount of work done is

A

70J

B

150J

C

190J

D

180J

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Q 14

Centre tape rectifier circuit consists of _____ diode

A

1

B

200%

C

300%

D

400%

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Q 15

A 18.0 V battery is connected to a capacitor, resulting in 27.0 μC of charge stored on the capacitor. How much energy is stored in the capacitor?

A $2.43 \times 10^{-4} \text{ J}$

B $4.86 \times 10^{-4} \text{ J}$

C $2.43 \times 10^{-2} \text{ J}$

D $4.86 \times 10^{-2} \text{ J}$

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Q 16 For skin cancer _____ is used

A phosphorus-32

B strontium-90

C both

D none of these

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Q 17

Numbers of electrons emitted in photoelectric effect depends upon

A

wavelength of incident light

B

frequency of incident light

C

energy of incident light

D

intensity of incident light

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Q 18

When an object moves on a circular path, then...

A

its displacement is constant

B

its displacement changes due to change in distance

C

its displacement changes due to change in direction of motion

D

its displacement is always zero

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Q 19

Electric potential difference between the two points can be defined as:...

A

difference of the kinetic energy per unit charge

B

difference of the kinetic energy

C

difference of the potential energy per unit charge

D

difference of the potential energy

18

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Q 20

1 microvolt is

A

 $1 \times 10^{-3} \text{ V}$

B

 $1 \times 10^{-4} \text{ V}$

C

 $1 \times 10^{-5} \text{ V}$

D

 $1 \times 10^{-6} \text{ V}$

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Q 21

A radioactive element has a half life of 1 day. Then 1000 atoms of the element reduce to 125 atoms in.....days:

A

3

B

4

C

8

D

125

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Q 22

What will be the decay constant of a material whose half life is 1600 years in $(\text{year})^{-1}$?

A

 4.33×10^{-4}

B

 2.33×10^{-4}

C

 4.33×10^4

D

 2.33×10^4

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Q 23

Which source is associated with a line emission spectra

A

Electric fibre

B

Neon street sign

C

Red traffic light

D

Sun

22

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Q 24

How much potential difference is required for establishing steady current?

A

Minimum

B

Constant

C

Maximum

D

Varying

23

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Q 25

A wave have the speed 0.50 m/s. If its wavelength is 1.5 m. What is the period of the wave?

A

0.33 m

B

3 m

C

1.5 m

D

6 m

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Q 26

Which of the following rectifier uses wheatstone bridge to rectify signal

A

half wave

B

full wave

C

bridge

D

All of the above

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Q 27

The minute hand of a large clock is 3.0 m long. What is its mean angular speed

A

 $1.4 \times 10^{-4} \text{ rad s}^{-1}$

B

 $1.0 \times 10^{-3} \text{ rad s}^{-1}$

C

 $5.2 \times 10^{-3} \text{ rad s}^{-1}$

D

 $1.7 \times 10^{-3} \text{ rad s}^{-1}$

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Q 28

Specific resistance of all metals is mostly affected by

A

temperature

B

pressure

C

magnetic field

D

volume

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Q 29

Average speed of a object after a completing a circle of 5 m radius in 5 seconds

A

 2π

B

 π

C

zero

D

 10π

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Q 30

SI Unit of wavelength?

A

m

B

 m^3

C

 m/s

D

 m/s^2

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Q 31

Peak voltage in the output of half wave rectifier is 10V so dc component of output voltage is

A

$10\sqrt{2}$

B

$10/\sqrt{2}$

C

$10/\pi$

D

10π

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Q 32

Whenever the magnetic flux linked with an electric circuit changes, an emf is induced in the circuit. This is called

A electromagnetic induction

B kirchoff's law

C hysteresis loss

D Lenz's law

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Q 33

Planck constant is named after

A

Einstein

B

newton's

C

Maxwell

D

none of these

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Q 34

A particle carrying a charge $3e$, accelerates through a potential difference of $2V$. The energy acquired by it is:....

A

6eV

B

1.5eV

C

0.66eV

D

12eV

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Q 35

A potential difference of 10 V is applied across a conductor whose resistance is 2.5 ohm. What is the value of current flowing through it?

A

4A

B

2A

C

6A

D

10A

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Q 36

If we make the magnetic field stronger, the value of induced current is

A

Decreased

B

Increased

C

Vanished

D

Kept constant

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Q 37

Two forces of $F_1 = 5 \text{ N}$ and $F_2 = 15 \text{ N}$ are working on a body in opposite direction. If body displaced by 5 m in direction of net force, what will be the work done by F_1

A 25 J

B -25 J

C 50 J

D 75 J

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Q 38

If the direction of current is upward pointed by thumb, magnetic field is north side, than force will be

A

left

B

right

C

top

D

bottom

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Q 39

A loop of radius 1 m is placed on a inclined of 60 degree with the magnetic field of 100 T, corresponding flux will be

A 314 wb

B 107 wb

C 157 wb

D 435 wb

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Q 40

When an object moves on a circular path and come back to its initial position, then:..

A

only its distance is zero

B

only its displacement is zero

C

neither distance nor displacement is zero

D

both distance and displacement is zero

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Q 41

A vibrating string have a little sound. However, when attached with a board then sound have a greater intensity. It is because:....

- A the string vibrates with more energy
- B the sound is concentrated over smaller area
- C the speed of sound is greater in board
- D the energy leaves the board at a greater rate

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Q 42

Energy stored inside the inductor is given by

A

$$\frac{1}{2}LI^2$$

B

$$LI^2$$

C

$$\frac{3}{2}LI^2$$

D

$$LI$$

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Q 43 Face of coil having clockwise current

A behaves like north pole

B behaves like south pole

C becomes magnet of varying poles

D does not behaves like magnet

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Q 44

For a half-wave rectifier having diode voltage V_D and supply input of V , the diode conducts for $\pi - 2\theta$, where θ is given by

A $\tan^{-1}(V_D/V)$

B $\sin^{-1}(V_D/V)$

C $\cos^{-1}(V_D/V)$

D $\cot^{-1}(V_D/V)$

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Q 45

In which process the net work done is zero?

A

Cyclic

B

Free expansion

C

Isochoric

D

Adiabatic

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Q 46

Uranium-238 forms thorium-234 after radioactive decay and has a half-life of 4.5×10^9 years. How many years will it take to decay 75% of the initial amount?

A

 9×10^9 years

B

 4×10^9 years

C

 9×10^{10} years

D

 4×10^{10} years

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Q 47

Calculate the charge passing through the circuit if it's current is 10 Amp and the recorded time is 15 seconds

A 1500 Coulomb

B 150 Coulomb

C 13400 Coulomb

D 140 Coulomb

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Q 48

During an adiabatic process the pressure of the gas is found to be proportional to fourth power of temperature. The ideal gas would be

A

H₂

B

He

C

CH₂

D

mixture of H₂ and He

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Q 49

A beam of electrons can

A

reflect

B

refract

C

both

D

none of these

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Q 50

A position dependent force $F = 7 - 2x + 3x^2$ N act on a body of mass 2 kg and displaces it from $x = 0$ to $x = 5$, the work done in joule is

A

70

B

270

C

35

D

135

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Q 51

C14 has half life 5700 years. At the end of 11400 years, the actual amount left is

A

0.0625 of original amount

B

0.5 of original amount

C

0.25 of original amount

D

0.125 of original amount

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Q 52

What is the wavelength of the wave if the phase angle between two points of the medium is $3\pi/4$ and they are separated through a distance of 3 cm?

A

8 cm

B

9 cm

C

1 cm

D

12 cm

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Q 53

Consider two capacitors with capacitance $2\mu\text{F}$ and $4\mu\text{F}$. With which type of connection will the $2\mu\text{F}$ capacitor have a greater amount of stored energy than the $4\mu\text{F}$ capacitor?

A

series

B

parallel

C

either series nor parallel

D

neither series nor parallel

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Q 54

The frame of reference could be

A

fixed always

B

not fixed always

C

at rest

D

none of these

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Q 55

A circular loop of area 200 cm^2 sits in x - z plane, then a uniform magnetic field $B = (0.3\mathbf{i} + 0.4\mathbf{j})$ is applied on it, find the magnetic flux through the loop

A 0.8 wb

B 8 wb

C 0.008 wb

D 0.08 wb

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Q 56

A wavefront travels from air to the medium Q. It makes an angle 45 deg with boundary in air and makes an angle 30 deg with boundary in medium Q. What is the refractive index of the medium Q?

A $\sin(30) / \sin(45)$

B $\sin(45) / \sin(30)$

C $\sin(60) / \sin(45)$

D $\sin(45) / \sin(60)$

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Q 57 The Diameter of DNA is maintained due to_____?

A Dipole dipole forces

B Induced dipole forces

C Chemical bond

D H-bond

56

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Q 58

Electrode Potential is developed when a metal is dipped into

A

An Acid

B

A base

C

In its own ions

D

Water

57

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Q 59

The organic compounds having all C-C single bonds are called as ____?

A

Alkanes

B

Alkenes

C

Alkynes

D

All of these

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Q 60

Which one is natron?

A

 Na_2CO_3

B

 $\text{Na}_2\text{CO}_3 \cdot 10 \text{H}_2\text{O}$

C

 $\text{Na}_2\text{CO}_3 \cdot \text{H}_2\text{O}$

D

 NaHCO_3

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Q 61

To conduct electricity through Ionic Solid, ions should be

A

Excited

B

Energized

C

Free

D

In random Motion

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Q 62 Thermal energy is also called as_____?

A Internal energy

B Temperature of a body

C Kinetic energy

D Heat energy

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Q 63

Conjugate base of a weak acid is

A

Weak

B

Strong

C

Unstable

D

None of these

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Q 64

After digestion proteins change into:

A

Amino acids

B

Starch

C

Glycogen

D

Lipids

63

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Q 65

Nyholm & Gillespie explains the shapes of molecules for

A

transition elements

B

non transition elements

C

only alkali metals

D

Alkaline earth metals

64

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Q 66

Which of the following term is constant in Boyle's law?

A

Pressure

B

Temperature

C

Volume

D

Density

65

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Q 67

The value of Planck's constant 'h' is

A

 $6.626 \times 10^{-3} \text{ KJs}$

B

 $6.262 \times 10^{-3} \text{ Js}$

C

 $6.626 \times 10^{-3} \text{ Js}$

D

 $6.262 \times 10^{-3} \text{ KJs}$

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Q 68

In Pakistan ethanol is prepared commercially by

A

Distillation

B

Fermentation

C

molasses

D

all of above

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Q 69

Enzymes are _____?

A

Non-specific in action

B

Very reactive

C

Highly specific

D

Volatile

68

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Q 70

Standard Oxidation potential has a

A

Negative sign

B

Positive Sign

C

a whole number value

D

None of these

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Q 71

When an electron changes its orbit from outer to inner level, energy is

A

no change

B

absorbed

C

released

D

remains constant

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Q 72

What is the other name of 2,4,6-trinitrophenol?

A

Picric acid

B

Nitrophenol

C

TNT

D

Benzophenone

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Q 73 Which of following has higher boiling and melting point

A acetone

B 2 - butanol

C propane

D 2 - methylpropene

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Q 74

Cyclic bromonium ion is formed when ethene reacts with _____?

A

HBr

B

HCl

C

Br₂

D

None of these

73

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Q 75

In S_N2 reactions, the hybridization of carbon in moving from substrate to transition state changes from ?

A

sp^2 to sp^5

B

sp to sp^2

C

sp^2 to sp^2

D

sp to sp^5

74

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Q 76

Which catalyst are used in catalytic cracking?

A

Silica, lime

B

Silica, alumina

C

Silica, Soda ash

D

Alumina, Pt

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Q 77

Independent Molecules of NaCl exist as

A

Solid

B

liquid

C

Vapours

D

Gas

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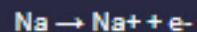
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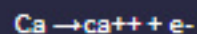
Q 78

Which will need maximum energy to remove its one electron?

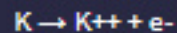
A



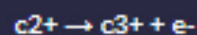
B



C



D



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Q 79 Enthalpy of a system is given as ____?

A $\Delta H = q_v + w$

B $H = E + PV$

C $H = q_p + PV$

D $H = E$

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Q 80 Boiling needs _____?

A Supply of heat in the start

B Supply of heat constantly

C Supply of heat at the end

D Supply of heat variably

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Q 81 Phenolic resins are produce by_____?

A Formaldehyde

B Acetaldehyde

C Acetone

D Butyraldehyde

80

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Q 82

In electrochemical series reduction potential relates to only

A

Real Conditions

B

Standard Conditions

C

Positive Values

D

Negative Values

81

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Q 83

An example of non- polar molecular crystal is

A

Ice

B

Iodine

C

Sugar

D

Salt

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Q 84

The electronic configuration of Ne-1 is

A

 $1s^2, 2s^2, 2p_x^2, 2p_y^2, 2p_z^2$

B

 $1s^2, 2s^2, 2p_x^2,$

C

 $1s^2, 2s^2, 2p_x^2, 2p_y^1$

D

 $1s^2, 2s^2, 2p_x^2, 2p_y^2, 2p_z^1$

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Q 85

Which of the following compound shows more H-Bonding?

A

 CH_3OH

B

 $\text{CH}_3\text{CH}_2\text{OH}$

C

 $\text{C}_6\text{H}_5\text{OH}$

D

 $\text{C}_6\text{H}_{11}\text{OH}$

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Q 86

If the difference of electronegativity is 1.7 or more than that, the bond formed is said to be

A

ionic bond

B

covalent bond

C

metallic bond

D

chemical bond

85

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Q 87

As the time interval approaches Zero the average and instantaneous rate become

A

Negative

B

Zero

C

Negligible

D

Positive

86

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Q 88

What is the pH of human blood?

A

7.45

B

7.35

C

7

D

7.53

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Q 89

Carboxylic acids having long aliphatic chain are called as_____?

A

Long carboxylic acids

B

Higher carboxylic acids

C

Fatty acids

D

Glycerols

88

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Q 90

Which of the following compound does not give cannizzaro reaction?

A

Benzaldehyde

B

Trimethyl acetaldehyde

C

Formaldehyde

D

Acetaldehyde

89

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Q 91

Which of the following give free radical reaction when react with alkanes?

A

Nitric acid

B

Oxygen

C

Halogen

D

All of these

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Q 92

On which of the following factors rate of enzyme action is directly proportional ?

A

Concentration of products

B

Time

C

Concentration of substrate

D

Concentration of solvent

91

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Q 93

During S_N1 mechanism, nucleophile can attack on the halogen carbon?

A

From opposite side of leaving group

B

From front of leaving group

C

From both sides

D

None of these

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Q 94

An exothermic reaction is allowed to reach equilibrium, if heat energy is then removed, the equilibrium will shift

A

to the product side

B

to reactant side

C

toward the middle

D

None of these

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Q 95

Isomorphism is exhibited by

A

Molecular crystals

B

covalent solids

C

Ionic Crystals

D

Metallic solids

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Q 96

Fuels with higher octane number can be produce by_____?

A

Cracking

B

Reforming

C

Decomposition

D

Isomerisation

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Q 97

In a rate expression the Bracket [] indicates,

A

Rate

B

Time Concentration

C

Reaction yield

D

Concentration

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Q 98

Which of the following compound is formed as a result of polymerization of acetylene?

A

Benzene

B

1,3,5-cyclohexatriene

C

Hexene

D

Butane

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Q 99 Lanthanides and actinides are also called as _____?

- A Rare earth elements
- B Outer transition elements
- C Non typical elements
- D Typical transition elements

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Q 100

Oxygen is not released on heating which of the compounds?

A

 $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$

B

 $\text{K}_2\text{Cr}_2\text{O}_7$

C

 $\text{Zn}(\text{ClO}_3)_2$

D

 KClO_3

99

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Q 101

Cyanohydrins when reacted with mineral acid produces _____?

A

Beta Hydroxy carboxylic acids

B

Alpha hydroxy carboxylic acids

C

Carboxylic acids

D

Unsaturated acids

100

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Q 102

Oxidative cleavage of alkenes takes place in the presence of _____?

A

Acidic cold KMnO_4

B

Warm Acidic KMnO_4

C

Warm alkaline KMnO_4

D

Alkaline cold KMnO_4

101

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Q 103

Which metal is paramagnetic?

A

Cr

B

Mn

C

Fe

D

All of these

102

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Q 104

A molecule of water has two bond, so 1 mole of water will contain ____moles of bonds

A

1

B

2

C

3

D

4

103

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Q 105

Which of the following reactions have first step similar with each other?

A

 E_1, S_2

B

 E_2, S_1

C

 E_2, S_2

D

 E_1, S_1

104

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Q 106

The simplest hydrocarbon to have structural isomer is:

A

Butane

B

Butanone

C

Butene

D

Butyne

105

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Q 107

Change in volume of a system depends only upon

A

Initial conditions

B

Final Conditions

C

Initial and final conditions

D

Path of the reaction

106

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Q 108

Which character of p-orbital determines the geometry of molecules

A

planar

B

axial

C

non directional

D

directional

107

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Q 109

In electrolysis of NaNO_3 , Nitrate ions are not discharged but

A Hydroxide Ions are discharged

B Hydrogen Ions are Discharged

C Sodium Ions are Discharged

D None of these

108

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Q 110

octane number of 2,2,4-trimethylpentane is

A

100

B

95

C

9

D

89

109

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Q 111

What is the boiling point of Glycerine at 1 atm?

A

280°C

B

150°C

C

290°C

D

110°C

110

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Q 112

In H-F bond formation, The fluorine atom complete its _____ by acquiring a share of electron from hydrogen

A 2s orbital

B 2p orbital

C 1s orbital

D all of these

111

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Q 113

Mating between relatives is called which of the following?

A

ex breeding

B

breeding

C

inbreeding

D

outbreeding

112

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Q 114

The branch that deals with the study of viruses is known as?

A

Entomology

B

a. Bacteriology

C

virology

D

epidemiology

113

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Q 115

The Light reaction takes place in?

A

Chloroplast

B

Grana

C

Thylakoid

D

Stroma

114

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Q 116

The ability to pass on genes is defined as which of the following?

A

differential reproduction

B

evolution

C

natural selection

D

fitness

115

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Q 117

Lymphatic system consists of all the following except:

A

lymph nodes

B

blood

C

lymphatic vessels

D

lymph

116

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Q 118

In competitive inhibition, the two things that binds to enzyme active site are?

A

substrate

B

inhibitors

C

catalyst

D

both A and B

117

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Q 119

The path taken by the nerve impulses in a reflex is called a

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

118

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Q 120

Lipids show solubility in which of the following solvents?

A

water

B

ether

C

inorganic solvents

D

all solvents

119

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Q 121

The area on the left hemisphere related to speech is called?

A

Amygdala

B

Broca's area

C

hypothalamus

D

occipital lobe

120

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Q 122

Pancreatic zymogens are only activated when they reached at?

A

stomach

B

pancreas

C

small intestine

D

large intestine

121

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Q 123

Cellulose is the major component of?

A

primary wall

B

secondary wall

C

middle lamella

D

all of these

122

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Q 124

What type of molecule is Chlorophyll?

A

Inorganic

B

Cationic

C

Anionic

D

Organic

123

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Q 125

Aschelminthes is also known as which of the following?

A

Protozoans

B

Eumetazoa

C

Protocist ancestors

D

Nematodes

124

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Q 126

What is a group of 8 cocci bacteria called?

A

Diplococci

B

Tetrad

C

Octococci

D

Sarcina

125

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Q 127

In sponges fertilization takes place in which of the following?

A

Ectoderm

B

Endoderm

C

Uterus

D

Mesenchyme

126

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Q 128

Which combination of class and its description is correct?

A

Osteichthyes - a bony endoskeleton & gills covered by operculum.

B

Reptilia - left aortic arch & internal fertilization.

C

Nematoda - triploblastic & acoelomates.

D

Cephalopods - dorsal nerve cord & bilateral symmetry.

127

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Q 129

What type of viruses are the HBV virus?

A

DNA Enveloped virus

B

RNA enveloped virus

C

DNA Virus

D

RNA naked virus

128

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Q 130

The position of a gene on chromosome is called?

A

Locus

B

arm

C

position

D

location

129

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Q 131

A series of C shaped cartilage rings are found in the wall of:

A epiglottis

B trachea

C bronchi

D none of these

130

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Q 132

Cyanobacteria have which of the following type of cell wall?

A

gram positive

B

gram negative

C

cellulose

D

acid fast

131

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Q 133

Which of the following is taken from blood by the liver due to insulin?

A glucagon

B glucose

C glucocorticoid

D all of these

132

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Q 134

The book name in which Darwin published the theory of evolution

A

the origin of species by natural selection

B

the origin of species

C

the evolution of species

D

the evolution of species by means of natural selection

133

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Q 135

Secretion of insulin from beta cells of pancreas is an example of which membrane function?

A

Endocytosis

B

Phagocytosis

C

Exocytosis

D

Pinocytosis

134

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Q 136

In alcoholic fermentation Pyruvic acid is broken down into?

A

Acetaldehyde

B

Methyl alcohol

C

ethyl alcohol

D

Lactic Acid

135

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Q 137

Neo Darwanism was developed in

A

early 1940s

B

early 1950s

C

early 1930s

D

early 1960s

136

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Q 138

If more substrate to already occurring enzymatic reaction is added more enzyme activity is seen because of which of the following?

A

There is probably more substrate present than there is enzyme

B

There is probably more product present than there is either substrate or enzyme

C

The enzyme substrate complex is probably failing to form during the reaction

D

There is probably more enzyme available than there is substrate

137

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Q 139

Circulatory system is open type in all of the following except?

A

Arthropoda

B

Gastropoda

C

Pelecypoda

D

Cephalopoda

138

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Q 140

One of the most important molecule found in living organisms is ATP. What is its major function?

A

Energy source of the cell

B

coenzyme

C

cofactor

D

both a and b

139

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Q 141

Which of the following is a mesh of interconnected membranes involved in protein synthesis and transport?

A

ER

B

cytoskeleton

C

golgi apparatus

D

all of these

140

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Q 142

Each air-sac consists of several microscopic single layered structures called:

A bronchioles

B windpipe

C bronchi

D alveoli

141

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Q 143

The process in which the phage is called a prophage is known as which of the following?

A

Induction

B

Penetration

C

Lytic

D

Lysogenic

142

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Q 144

After leaving the spinal cord, the spinal nerve gets divided into nerve fibers, connecting to which of the following?

A

receptors

B

effectors

C

midbrain

D

all parts of the body

143

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Q 145

How does the electron transport system generate ATP?

A

symbiosis

B

chemiosmosis

C

both a and b

D

none of these

144

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Q 146

Virus attachment requires energy?

A

yes

B

no

C

provided by cell usually

D

provided by virus machinery

145

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Q 147

Which of the following theories representing Lamarckian evolution is false?

A

Inheritance of acquired characteristics

B

Theory of genetic change

C

both a and b

D

none of these

146

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Q 148

Human testes produce how many million sperms every day?

A 10

B 20

C 30

D 26

147

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Q 149

How does inbreeding negatively impact a population?

A

the frequency of alleles does not change within the population.

B

It reduces the number heterozygous individuals, preventing beneficial alleles from being efficiently selected for.

C

increases the number of homozygous individuals, allowing potentially harmful recessive alleles to express themselves more frequently.

D

all of these

148

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Q 149

How does inbreeding negatively impact a population?

A

the frequency of alleles does not change within the population.

B

It reduces the number heterozygous individuals, preventing beneficial alleles from being efficiently selected for.

C

increases the number of homozygous individuals, allowing potentially harmful recessive alleles to express themselves more frequently.

D

all of these

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Q 150

In terrestrial conditions, the type of fertilization more common is:

A

internal

B

external

C

self

D

All A,B and C are correct

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Q 151

The electrons from Fd to NADP are transferred by which enzyme?

A

NADP Oxidase

B

NADP reductase

C

ATP synthase

D

both a and b

150

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Q 152

The resting potential membrane is determined by which of the following?

A

potassium ion gradient

B

sodium ion gradient

C

bicarbonate ion gradient

D

none of these

151

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Q 153

In the molecular formula $C_x(H_2O)_y$, the value of x ranges from?

A

1000

B

2000

C

3 to 7000

D

3000 and more

152

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Q 154

The presence of peptidoglycan in Gram positive bacteria is

A 40% of dry weight

B 50% of dry weight

C 10% of dry weigh

D 80% of dry weight

153

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Q 155

Midbrain is also known as:

A

Pons

B

Medulla

C

mesencephalon

D

None of these

154

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Q 156

A woman is a carrier for a sex-linked disorder. She marries a man whose father had the disorder, and whose mother did not. The man is unaffected. If they have a child, what is the probability that the child is also a carrier?

A

25%

B

50%

C

75%

D

1

155

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Q 157

The opening of larynx is called

A

glottis

B

voice box

C

epiglottis

D

both B and C

156

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Q 158

The proximal part of the oviduct is significant because:

A

Fertilization occurs here

B

Implantation occurs here

C

Placenta is established here

D

None of these

157

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Q 159

A non-protein chemical compound which is required for protein's biological activity is?

A coenzyme

B cofactor

C DNA

D RNA

158

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Q 160

If a cross section of a sarcomere is seen, each myosin is surrounded by how many actin molecules?

A

5

B

6

C

7

D

8

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Q 161

The internal buds are known as which of the following?

A

Spicules

B

Choanocytes

C

Gemmules

D

both a and b

160

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Q 162

Compared to gram negative bacteria, how many more membrane-bound organelles do gram positive bacteria contain?

A 0

B 1

C 2

D 3

161

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Q 163

These animals have only left aortic arch in their circulatory system.

A

Crocodiles and mammals.

B

Birds and mammals.

C

Mammals only.

D

All of the above.

162

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Q 164

Which of the following would not be expected during pregnancy?

A

Maintenance of the corpus luteum

B

Formation of the placenta

C

Blastocyst implantation

D

Formation of the corpus albicans

163

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Q 164

Which of the following would not be expected during pregnancy?

A

Maintenance of the corpus luteum

B

Formation of the placenta

C

Blastocyst implantation

D

Formation of the corpus albicans

163

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Q 165

Which of the following is NOT a bony fish?

A

Perch

B

Plaice

C

Catfish

D

Dogfish

164

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Q 166

What part of the cell serves as an intracellular highway?

A

ER

B

Golgi apparatus

C

cell membrane

D

mitochondria

165

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Q 167

An example of convergent evolution is best represented by which of the following?

A

Teeth of domestic dog, teeth of a wolf

B

Wings of *Geospiza magnirostris*, wings of *Geospiza fortis*

C

Wing of Hawkmoths, the wing of hawks

D

all of these

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Q 168

The composition of the white matter of spinal cord is:

A

myelinated dendrite

B

non-myelinated dendrite

C

non-myelinated axon

D

myelinated axon

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Q 169

Reversible inhibitors form Weak linkages with which of the following?

A enzyme

B reactant

C product

D substrate

168

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Q 170

Which of the following is not spiral in shape

A

hyphomicrobium

B

Vibrio

C

Pseudomonas

D

Spirillum minus

169

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Q 171

Storage form of lipids is

A

Esterified cholesterol

B

Glycerophospholipids

C

Triglycerides

D

Sphingolipids

170

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Q 172

Of the following, which one is a light gathering structure?

A

Antenna complex

B

reaction center

C

photosystem

D

none of these

171

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Q 173

When a hemophilia carrier woman marries a normal man, who among her offspring may be affected:

A

All her children

B

Half of her daughters

C

All her daughters

D

Half of her sons

172

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Q 174

What is the product of the ETC in animals?

A

oxygen

B

carbon dioxide

C

water

D

all of these

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Q 175

Which one of the following is a non-protein group covalently bonded to a few respiratory enzymes among others?

A

Nicotine adenine dinucleotide

B

Flavin adenine dinucleotide

C

Nicotinamide adenine dinucleotide phosphate

D

All of the above

174

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Q 176

What is the approximate ratio of RNA and protein in a ribosome?

A

1:1

B

2:1

C

1:2

D

1:3

175

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Q 177

Which of the following molecules binds to troponin during muscle contraction, triggering tropomyosin to move away from the actin binding sites and allowing the myosin head to form a cross bridge?

A

ATP

B

ADP

C

Calcium

D

sodium

176

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Q 178

The left side of the body is controlled by:

A left cerebral hemisphere

B right cerebral hemisphere

C Hippocampus

D Corpus callosum

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Q 179

The structures with a diameter less than 1mm are:

A bronchioles

B Bronchi

C Alveoli

D Air sac

178

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Q 180

Conversion of ssRNA (-) to ssRNA (+) mediated by

A

DNA dependent DNA polymerase

B

. DNA dependent RNA polymerase

C

RNA dependent DNA polymerase

D

RNA dependent RNA polymerase

179

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Next Question 

Demonstrate control of tenses and sentence structure

Q 181

What is your name?

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

180

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 182

Where were you _____ at that time ?

A

going

B

goes

C

went

D

gone

181

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Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 183

Choose the correct sentence.

A

Samar bought an apple, an orange and an pear.

B

Samar bought an apple a orange and a pear.

C

Samar bought an apple, an orange and a pear.

D

Samar bought a apple, an orange and a pear.

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Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 183

Choose the correct sentence.

A

Samar bought an apple, an orange and an pear.

B

Samar bought an apple a orange and a pear.

C

Samar bought an apple, an orange and a pear.

D

Samar bought a apple, an orange and a pear.

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Comprehend key vocabulary

Q 184

Excuse me. Could you _____ me the way to the town hall?

A

let

B

put

C

talk

D

tell

183

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Demonstrate control of tenses and sentence structure

Q 185

The horse _____ (gallop) across the fields.

A

gallop

B

galloping

C

gallops

D

were galloping

184

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Next Question >

Demonstrate correct use of articles and prepositions

Q 186 She returned after _____ hour.

A a

B an

C the

D no article

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Demonstrate control of tenses and sentence structure

Q 187

If you _____ (start) at once you can reach by 6'o clock.

A

start

B

starting

C

starts

D

have started

186

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Demonstrate correct use of subject-verb agreement

Q 188

Either she or her friends ____ responsible for this accident.

A

is

B

are

C

will

D

may

187

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Demonstrate control of tenses and sentence structure

Q 189

Which tense would you use for talking about next weekend?

A

Present

B

past

C

future

D

none of these

188

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Demonstrate control of tenses and sentence structure

Q 190

When I go swimming. I have to keep my eyes closed underwater.

A

complex

B

simple

C

compound

D

None

189

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Comprehend key vocabulary

Q 191

affluent

A

careful

B

clever

C

wealthy

D

educated

190

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Next Question >

Comprehend key vocabulary

Q 192

Can you _____ the tea and I'll get the cake myself.

A

depart

B

disturb

C

pour

D

feed

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Next Question >

Demonstrate correct use of articles and prepositions

Q 193 My brother's birthday is _____ the 5th of November.

A at

B in

C on

D about

192

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Demonstrate control of tenses and sentence structure

Q 194

He and _____ are great friends.

A

me

B

I

C

she

D

None

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Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 195

Choose the correct spelling of the word

A

discribe

B

deskribe

C

describe

D

diskribe

194

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Demonstrate correct use of subject-verb agreement

Q 196

None of them ____ able to solve this question.

A

is

B

were

C

was

D

would be

195

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Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 197

Choose the correct sentence.

A

When Sheila arrived she said, "please fix me some hot tea; i'm so cold!"

B

When Sheila arrived she said, "Please fix me some hot tea; Im so cold!"

C

When Sheila arrived she said, "Please fix me some hot tea, I'm so cold!"

D

When Sheila arrived she said, "Please fix me some hot tea; I'm so cold!"

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Next Question >

Demonstrate correct use of articles and prepositions

Q 198

_____ camel is the ship of the desert.

A

A

B

An

C

The

D

No article

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Comprehend key vocabulary

Q 199

I love you. I can't the thought of ever losing you.

A

bear

B

bare

C

support

D

think of

198

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Demonstrate control of tenses and sentence structure

Q 200

We missed our plane because we were late.

A

complex

B

simple

C

compound

D

compound-complex

199

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Statements and Actions

Q 201

Statement The Government has decided not to provide financial support to voluntary organisations from next Five Year Plan and has communicated that all such organisations should raise funds to meet their financial needs. I. Voluntary organisations should collaborate with foreign agencies. II. They should explore other sources of financial support.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

200

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Statements and conclusions

Q 202

Statements : All film stars are playback singers. All film directors are film stars. Conclusions : I. All film directors are playback singers. II. Some film stars are film directors.

A Only conclusion II follows

B Either I or II follows

C Neither I nor II follows

D Both I and II follow

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Complete the series

Q 203

What is the common vowel in Apple and Banana?

A

E

B

P

C

A

D

M

202

SKIPPED QUESTIONS



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Statements and Conclusions

Q 204

Statements Nutritious food is delicious and good for health. Apple is nutritious. Conclusions (I) Apple is good for health. (II) Delicious foods are nutritious.

A Only conclusion (I) follows

B Only conclusion (II) follows

C Both conclusions follow

D Both of them do not follow

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Statements and Actions

Q 205

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A both of them follows

B None of them follows

C Only I follows

D Only II follows

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Dependent Causes/ Independent Causes/

Q 206

Statement: The government has recently fixed the fees for professional courses offered by the unaided institutions which are much lower than the fees charged last year. The parents of the aspiring students launched a severe agitation last year protesting against the high fees charged by the unaided institutions.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of independent causes

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Statement and Argument

Q 207

Statement Should the public sector undertakings be allowed to adopt a hire-and-fire policy? Arguments (I) Yes, as this will help the public sector undertakings to get rid of non-performing employees and will also help to reward the performing employees. (II) No, the management may not be able to implement the policy in an unbiased manner and the employees will suffer due to the high-handedness of the management.

A If only argument I is strong.

B If only argument II is strong

C If both I and II are strong.

D If neither I nor II is strong

206

SKIPPED QUESTIONS

Verbal Classification

Q 208

The SI unit of charge is ?

A

Ampere

B

B. Coulomb

C

C. Ohm

D

Both A and B

207

SKIPPED QUESTIONS



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Dependent Causes/ Independent Causes/

Q 209

Statement: There is increase in water level of all the water tanks supplying drinking water to the city during the last fortnight. Most of the trains were cancelled last week due to waterlogging on the tracks.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of some common cause

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Directions to solve

Q 210

Directions : In each of the following questions a statement is given, followed by two conclusions. Give answer : Statement : Without reforming the entire administrative system, we cannot eradicate corruption and prejudice from the society. Assumptions : I. The existence of corruption and prejudice is good. II. There is enough flexibility to change the administrative system.

A Only assumption I is implicit

B Only assumption II is implicit

C Either I or II is implicit

D Both A and B

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Q1

The greek word "xeros" and "graphos" means:...

A

sharp graphics

B

dry writing

C

wet writing

D

wet graphics

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Q2

What will happen in a time of 7 hours, if a radioactive substance has an average life of 7 hours?

A

Half of the active nuclei decay

B

less half of the active nuclei decay

C

more than half of the active nuclei decay

D

total nuclei decay

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Q3

Iodine-131 is used to trace which cancer

A

lungs

B

thyroid gland

C

breast

D

liver

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Q4

An apparatus which is used to measure current voltage and resistance

A

Multimeter

B

Ammeter

C

Galvanometer

D

Voltmeter

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Q5

For atomic spectra, atomic gas or vapor at pressure which is much ____ than atmospheric pressure is excited

A

greater

B

greater than equal to

C

less

D

none of these

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Q6

A fraction of internal energy is due to the molecular vibration, which is different in different states of matter. Which of the following gives the correct order of fraction of internal energy due to molecular vibration?

A

solid > gas > liquid

B

gas > liquid > solid

C

solid > liquid > gas

D

gas > liquid > solid

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Q7

A particle is performing uniform circular motion has constant:

A

velocity

B

acceleration

C

position

D

momentum

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Q8

Magnetic induction is also called

A

flux

B

magnetization

C

magnetic intensity

D

flux intensity

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Next Question >

Q9

For clockwise rotations direction of angular velocity is

A

positive

B

negative

C

zero

D

infinite

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Q10

If 110 J heat is added to the system and 40J work is done, then amount of work done is

A

70J

B

150J

C

190J

D

180J

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Q11 Centre tape rectifier circuit consists of _____ diode

A 1

B 200%

C 300%

D 400%

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Q12

A 18.0 V battery is connected to a capacitor, resulting in 27.0 μC of charge stored on the capacitor. How much energy is stored in the capacitor?

A

 $2.43 \times 10^{-4} \text{ J}$

B

 $4.86 \times 10^{-4} \text{ J}$

C

 $2.43 \times 10^{-2} \text{ J}$

D

 $4.86 \times 10^{-2} \text{ J}$

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Q13 For skin cancer _____ is used

A phosphorus-32

B strontium-90

C both

D none of these

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Q14

Numbers of electrons emitted in photoelectric effect depends upon

A

wavelength of incident light

B

frequency of incident light

C

energy of incident light

D

intensity of incident light

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Q15

Electric potential difference between the two points can be defined as:...

A

difference of the kinetic energy per unit charge

B

difference of the kinetic energy

C

difference of the potential energy per unit charge

D

difference of the potential energy

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Q16

1 microvolt is

A

 $1 \times 10^{-3} \text{ V}$

B

 $1 \times 10^{-4} \text{ V}$

C

 $1 \times 10^{-5} \text{ V}$

D

 $1 \times 10^{-6} \text{ V}$

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Q17

A radioactive element has a half life of 1 day. Then 1000 atoms of the element reduce to 125 atoms in.....days:

A

3

B

4

C

8

D

125

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Q18

What will be the decay constant of a material whose half life is 1600 years in $(\text{year})^{-1}$?

A

 4.33×10^{-4}

B

 2.33×10^{-4}

C

 4.33×10^4

D

 2.33×10^4

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Q19 Which source is associated with a line emission spectra

A Electric fibre

B Neon street sign

C Red traffic light

D Sun

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Q20

How much potential difference is required for establishing steady current?

A

Minimum

B

Constant

C

Maximum

D

Varying

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Q21

A wave have the speed 0.50 m/s. If its wavelength is 1.5 m. What is the period of the wave?

A

0.33 m

B

3 m

C

1.5 m

D

6 m

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Q22

Which of the following rectifier uses wheatstone bridge to rectify signal

A

half wave

B

full wave

C

bridge

D

All of the above

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Q23

Specific resistance of all metals is mostly affected by

A

temperature

B

pressure

C

magnetic field

D

volume

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Q24

Average speed of a object after a completing a circle of 5 m radius in 5 seconds

A

 2π

B

 π

C

zero

D

 10π

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Q25

SI Unit of wavelength?

A

m

B

 m^3

C

 m/s

D

 m/s^2

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Q26

Peak voltage in the output of half wave rectifier is 10V so dc component of output voltage is

A

 $10\sqrt{2}$

B

 $10/\sqrt{2}$

C

 $10/\pi$

D

 10π

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Q27

Whenever the magnetic flux linked with an electric circuit changes, an emf is induced in the circuit. This is called

A

electromagnetic induction

B

kirchoff's law

C

hysteresis loss

D

Lenz's law

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Q28

Planck constant is named after

A

Einstein

B

newton's

C

Maxwell

D

none of these

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Q29

A particle carrying a charge $3e$, accelerates through a potential difference of $2V$. The energy acquired by it is:...

A

6eV

B

1.5eV

C

0.66eV

D

12eV

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Q30

If we make the magnetic field stronger, the value of induced current is

A

Decreased

B

Increased

C

Vanished

D

Kept constant

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Q31

Two forces of $F_1 = 5 \text{ N}$ and $F_2 = 15 \text{ N}$ are working on a body in opposite direction. If body displaced by 5 m in direction of net force, what will be the work done by F_1

A

25 J

B

-25 J

C

50 J

D

75 J

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Q32

If the direction of current is upward pointed by thumb, magnetic field is north side, than force will be

A

left

B

right

C

top

D

bottom

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Q33

A loop of radius 1 m is placed on a inclined of 60 degree with the magnetic field of 100 T, corresponding flux will be

A

314 wb

B

107 wb

C

157 wb

D

435 wb

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Q34

When an object moves on a circular path and come back to its initial position, then...

A

only its distance is zero

B

only its displacement is zero

C

neither distance nor displacement is zero

D

both distance and displacement is zero

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Q35

A vibrating string have a little sound. However, when attached with a board then sound have a greater intensity. It is because:...

A

the string vibrates with more energy

B

the sound is concentrated over smaller area

C

the speed of sound is greater in board

D

the energy leaves the board at a greater rate

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Q36

Energy stored inside the inductor is given by

A

$$\frac{1}{2}LI^2$$

B

$$LI^2$$

C

$$\frac{3}{2}LI^2$$

D

$$LI$$

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Q37

For a half-wave rectifier having diode voltage V_D and supply input of V , the diode conducts for $\pi - 2\theta$, where θ is given by

A

$$\tan^{-1}(V_D/V)$$

B

$$\sin^{-1}(V_D/V)$$

C

$$\cos^{-1}(V_D/V)$$

D

$$\cot^{-1}(V_D/V)$$

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Q38

In which process the net work done is zero?

A

Cyclic

B

Free expansion

C

Isochoric

D

Adiabatic

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Q39

Uranium-238 forms thorium-234 after radioactive decay and has a half-life of 4.5×10^9 years. How many years will it take to decay 75% of the initial amount?

A

9×10^9 years

B

4×10^9 years

C

9×10^{10} years

D

4×10^{10} years

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Q40

Calculate the charge passing through the circuit if it's current is 10 Amp and the recorded time is 15 seconds

A

1500 Coulomb

B

150 Coulomb

C

13400 Coulomb

D

140 Coulomb

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Q41

During an adiabatic process the pressure of the gas is found to be proportional to fourth power of temperature. The ideal gas would be

A

 H_2

B

 He

C

 CH_2

D

mixture of H_2 and He

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Q42

A beam of electrons can

A

reflect

B

refract

C

both

D

none of these

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Q43

A position dependent force $F = 7 - 2x + 3x^2$ N act on a body of mass 2 kg and displaces it from $x = 0$ to $x = 5$, the work done in joule is

A

70

B

270

C

35

D

135

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Q44

C14 has half life 5700 years. At the end of 11400 years, the actual amount left is

A

0.0625 of original amount

B

0.5 of original amount

C

0.25 of original amount

D

0.125 of original amount

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Q45

Consider two capacitors with capacitance $2\mu\text{F}$ and $4\mu\text{F}$. With which type of connection will the $2\mu\text{F}$ capacitor have a greater amount of stored energy than the $4\mu\text{F}$ capacitor?

A

series

B

parallel

C

either series nor parallel

D

neither series nor parallel

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Q46

The frame of reference could be

A

fixed always

B

not fixed always

C

at rest

D

none of these

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Q47

A circular loop of area 200 cm^2 sits in x - z plane, then a uniform magnetic field $B = (0.3\mathbf{i} + 0.4\mathbf{j})$ is applied on it, find the magnetic flux through the loop

A

0.8 wb

B

8 wb

C

0.008 wb

D

0.08 wb

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Q48

A wavefront travels from air to the medium Q. It makes an angle 45 deg with boundary in air and makes an angle 30 deg with boundary in medium Q. What is the refractive index of the medium Q?

A

$$\sin(30) / \sin(45)$$

B

$$\sin(45) / \sin(30)$$

C

$$\sin(60) / \sin(45)$$

D

$$\sin(45) / \sin(60)$$

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Q49 The Diameter of DNA is maintained due to_____?

A Dipole dipole forces

B Induced dipole forces

C Chemical bond

D H-bond

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Q50

Electrode Potential is developed when a metal is dipped into

A

An Acid

B

A base

C

In its own ions

D

Water

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Q51

The organic compounds having all C-C single bonds are called as ____?

A

Alkanes

B

Alkenes

C

Alkynes

D

All of these

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Q52

To conduct electricity through Ionic Solid, ions should be

A

Excited

B

Energized

C

Free

D

In random Motion

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Q53 Thermal energy is also called as_____?

A Internal energy

B Temperature of a body

C Kinetic energy

D Heat energy

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Q54

Conjugate base of a weak acid is

A

Weak

B

Strong

C

Unstable

D

None of these

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Q55

After digestion proteins change into:

A

Amino acids

B

Starch

C

Glycogen

D

Lipids

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Q56

Nyholm & Gillespie explains the shapes of molecules for

A

transition elements

B

non transition elements

C

only alkali metals

D

Alkaline earth metals

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Q57

Which of the following term is constant in Boyle's law?

A

Pressure

B

Temperature

C

Volume

D

Density

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Q58

The value of Planck's constant 'h' is

A

 $6.626 \times 10^{-3} \text{ KJs}$

B

 $6.262 \times 10^{-3} \text{ Js}$

C

 $6.626 \times 10^{-3} \text{ Js}$

D

 $6.262 \times 10^{-3} \text{ KJs}$

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Q59

Enzymes are _____?

A

Non-specific in action

B

Very reactive

C

Highly specific

D

Volatile

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Q60

Standard Oxidation potential has a

A

Negative sign

B

Positive Sign

C

a whole number value

D

None of these

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Q61

When an electron changes its orbit from outer to inner level, energy is

A

no change

B

absorbed

C

released

D

remains constant

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Q62

What is the other name of 2,4,6-trinitrophenol?

A

Picric acid

B

Nitrophenol

C

TNT

D

Benzophenone

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Q63

Which of following has higher boiling and melting point

A

acetone

B

2 - butanol

C

propane

D

2 - methylpropene

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Q64

Cyclic bromonium ion is formed when ethene reacts with_____?

A

HBr

B

HCl

C

Br₂

D

None of these

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Q65

In S_N2 reactions, the hybridization of carbon in moving from substrate to transition state changes from ?

A

sp^2 to sp^5

B

sp to sp^2

C

sp^5 to sp^2

D

sp to sp^5

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Q66

Which catalyst are used in catalytic cracking?

A

Silica, lime

B

Silica, alumina

C

Silica, Soda ash

D

Alumina, Pt

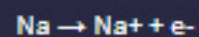
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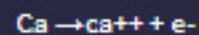
Q67

Which will need maximum energy to remove its one electron?

A



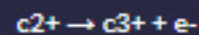
B



C



D



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Q68 Enthalpy of a system is given as ____?

A $\Delta H = q_v + w$

B $H = E + PV$

C $H = q_p + PV$

D $H = E$

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Q69 Boiling needs _____?

A Supply of heat in the start

B Supply of heat constantly

C Supply of heat at the end

D Supply of heat variably

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Q70 Phenolic resins are produce by_____?

A Formaldehyde

B Acetaldehyde

C Acetone

D Butyraldehyde

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Q71

In electrochemical series reduction potential relates to only

A

Real Conditions

B

Standard Conditions

C

Positive Values

D

Negative Values

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Q72

An example of non-polar molecular crystal is

A

Ice

B

Iodine

C

Sugar

D

Salt

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Q73

The electronic configuration of Ne-1 is

A

 $1s^2, 2s^2, 2p_x^2, 2p_y^2, 2p_z^2$

B

 $1s^2, 2s^2, 2p_x^2,$

C

 $1s^2, 2s^2, 2p_x^2, 2p_y^1$

D

 $1s^2, 2s^2, 2p_x^2, 2p_y^2, 2p_z^1$

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Q74

As the time interval approaches Zero the average and instantaneous rate become

A

Negative

B

Zero

C

Negligible

D

Positive

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Q75

What is the pH of human blood?

A

7.45

B

7.35

C

7

D

7.53

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Q76

Carboxylic acids having long aliphatic chain are called as_____?

A

Long carboxylic acids

B

Higher carboxylic acids

C

Fatty acids

D

Glycerols

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Q77

Which of the following compound does not give cannizzaro reaction?

A

Benzaldehyde

B

Trimethyl acetaldehyde

C

Formaldehyde

D

Acetaldehyde

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Q78

Which of the following give free radical reaction when react with alkanes?

A

Nitric acid

B

Oxygen

C

Halogen

D

All of these

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Q79

On which of the following factors rate of enzyme action is directly proportional ?

A

Concentration of products

B

Time

C

Concentration of substrate

D

Concentration of solvent

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Q80

An exothermic reaction is allowed to reach equilibrium, if heat energy is then removed, the equilibrium will shift

A

to the product side

B

to reactant side

C

toward the middle

D

None of these

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Q81

Isomorphism is exhibited by

A

Molecular crystals

B

covalent solids

C

Ionic Crystals

D

Metallic solids

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Next Question >

Q82

Fuels with higher octane number can be produce by_____?

A

Cracking

B

Reforming

C

Decomposition

D

Isomerisation

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Q83

In a rate expression the Bracket [] indicates,

A

Rate

B

Time Concentration

C

Reaction yield

D

Concentration

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Q84

Which of the following compound is formed as a result of polymerization of acetylene?

A

Benzene

B

1,3,5-cyclohexatriene

C

Hexene

D

Butane

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Q85

Lanthanides and actinides are also called as_____?

A

Rare earth elements

B

Outer transition elements

C

Non typical elements

D

Typical transition elements

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Q86

Oxygen is not released on heating which of the compounds?

A

 $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$

B

 $\text{K}_2\text{Cr}_2\text{O}_7$

C

 $\text{Zn}(\text{ClO}_3)_2$

D

 KClO_3

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Q87

Oxidative cleavage of alkenes takes place in the presence of _____?

A

Acidic cold KMnO_4

B

Warm Acidic KMnO_4

C

Warm alkaline KMnO_4

D

Alkaline cold KMnO_4

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Q88

Which metal is paramagnetic?

A

Cr

B

Mn

C

Fe

D

All of these

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Q89

A molecule of water has two bond, so 1 mole of water will contain ____ moles of bonds

A

1

B

2

C

3

D

4

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Q90

Which of the following reactions have first step similar with each other?

A

 E_1, S_2

B

 E_2, S_1

C

 E_2, S_2

D

 E_1, S_1

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Q91

The simplest hydrocarbon to have structural isomer is:

A

Butane

B

Butanone

C

Butene

D

Butyne

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Q92

Change in volume of a system depends only upon

A

Initial conditions

B

Final Conditions

C

Initial and final conditions

D

Path of the reaction

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Q93

Which character of p-orbital determines the geometry of molecules

A

planar

B

axial

C

non directional

D

directional

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Q94

octane number of 2,2,4-trimethylpentane is

A

100

B

95

C

9

D

89

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Q95

What is the boiling point of Glycerine at 1 atm?

A

280°C

B

150°C

C

290°C

D

110°C

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Q96

In H-F bond formation, The fluorine atom complete its _____ by acquiring a share of electron from hydrogen

A

2s orbital

B

2p orbital

C

1s orbital

D

all of these

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Q97

Mating between relatives is called which of the following?

A

ex breeding

B

breeding

C

inbreeding

D

outbreeding

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Q98

The branch that deals with the study of viruses is known as?

A

Entomology

B

a. Bacteriology

C

virology

D

epidemiology

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Q99

The Light reaction takes place in?

A

Chloroplast

B

Grana

C

Thylakoid

D

Stroma

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Q100

The ability to pass on genes is defined as which of the following?

A

differential reproduction

B

evolution

C

natural selection

D

fitness

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Q101

Lymphatic system consists of all the following except:

A

lymph nodes

B

blood

C

lymphatic vessels

D

lymph

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Q102

The path taken by the nerve impulses in a reflex is called a

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

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Q103

Lipids show solubility in which of the following solvents?

A

water

B

ether

C

inorganic solvents

D

all solvents

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Q104

The area on the left hemisphere related to speech is called?

A

Amygdala

B

Broca's area

C

hypothalamus

D

occipital lobe

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Q105

Pancreatic zymogens are only activated when they reached at?

A

stomach

B

pancreas

C

small intestine

D

large intestine

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Q106

Cellulose is the major component of?

A

primary wall

B

secondary wall

C

middle lamella

D

all of these

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Q107

What type of molecule is Chlorophyll?

A

Inorganic

B

Cationic

C

Anionic

D

Organic

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Q108

Aschelminthes is also known as which of the following?

A

Protozoans

B

Eumetazoa

C

Protocist ancestors

D

Nematodes

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Q109

In sponges fertilization takes place in which of the following?

A

Ectoderm

B

Endoderm

C

Uterus

D

Mesenchyme

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Q110

Which combination of class and its description is correct?

A

Osteichthyes - a bony endoskeleton & gills covered by operculum.

B

Reptilia - left aortic arch & internal fertilization.

C

Nematoda - triploblastic & acoelomates.

D

Cephalopods - dorsal nerve cord & bilateral symmetry.

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Q111

What type of viruses are the HBV virus?

A

DNA Enveloped virus

B

RNA enveloped virus

C

DNA Virus

D

RNA naked virus

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Q112

The position of a gene on chromosome is called?

A

Locus

B

arm

C

position

D

location

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Q113

A series of C shaped cartilage rings are found in the wall of:

A

epiglottis

B

trachea

C

bronchi

D

none of these

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Q114

Cyanobacteria have which of the following type of cell wall?

A

gram positive

B

gram negative

C

cellulose

D

acid fast

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Q115

Which of the following is taken from blood by the liver due to insulin?

A

glucagon

B

glucose

C

glucocorticoid

D

all of these

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Q116

Secretion of insulin from beta cells of pancreas is an example of which membrane function?

A

Endocytosis

B

Phagocytosis

C

Exocytosis

D

Pinocytosis

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Q117

Neo Darwanism was developed in

A

early 1940s

B

early 1950s

C

early 1930s

D

early 1960s

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Q118

If more substrate to already occurring enzymatic reaction is added more enzyme activity is seen because of which of the following?

A

There is probably more substrate present than there is enzyme

B

There is probably more product present than there is either substrate or enzyme

C

The enzyme substrate complex is probably failing to form during the reaction

D

There is probably more enzyme available than there is substrate

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Q119

Circulatory system is open type in all of the following except?

A

Arthropoda

B

Gastropoda

C

Pelecypoda

D

Cephalopoda

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Q120

One of the most important molecule found in living organisms is ATP. What is its major function?

A

Energy source of the cell

B

coenzyme

C

cofactor

D

both a and b

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Q121

Which of the following is a mesh of interconnected membranes involved in protein synthesis and transport?

A

ER

B

cytoskeleton

C

golgi apparatus

D

all of these

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Q122

Each air-sac consists of several microscopic single layered structures called:

A

bronchioles

B

windpipe

C

bronchi

D

alveoli

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Q123

The process in which the phage is called a prophage is known as which of the following?

A

Induction

B

Penetration

C

Lytic

D

Lysogenic

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Q124

After leaving the spinal cord, the spinal nerve gets divided into nerve fibers, connecting to which of the following?

A

receptors

B

effectors

C

midbrain

D

all parts of the body

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Q125

How does the electron transport system generate ATP?

A

symbiosis

B

chemiosmosis

C

both a and b

D

none of these

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Q126

Virus attachment requires energy?

A

yes

B

no

C

provided by cell usually

D

provided by virus machinery

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Q127

Which of the following theories representing Lamarckian evolution is false?

A

Inheritance of acquired characteristics

B

Theory of genetic change

C

both a and b

D

none of these

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Q128

Human testes produce how many million sperms every day?

A

10

B

20

C

30

D

26

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Q129

How does inbreeding negatively impact a population?

A

the frequency of alleles does not change within the population.

B

It reduces the number heterozygous individuals, preventing beneficial alleles from being efficiently selected for.

C

increases the number of homozygous individuals, allowing potentially harmful recessive alleles to express themselves more frequently.

D

all of these

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Q130

In terrestrial conditions, the type of fertilization more common is:

A

internal

B

external

C

self

D

All A,B and C are correct

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Q131

The resting potential membrane is determined by which of the following?

A

potassium ion gradient

B

sodium ion gradient

C

bicarbonate ion gradient

D

none of these

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Q132

In the molecular formula $C_x(H_2O)_y$, the value of x ranges from?

A

1000

B

2000

C

3 to 7000

D

3000 and more

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Q133

The presence of peptidoglycan in Gram positive bacteria is

A

40% of dry weight

B

50% of dry weight

C

10% of dry weigh

D

80% of dry weight

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Q134

Midbrain is also known as:

A

Pons

B

Medulla

C

mesencephalon

D

None of these

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Q135

A woman is a carrier for a sex-linked disorder. She marries a man whose father had the disorder, and whose mother did not. The man is unaffected. If they have a child, what is the probability that the child is also a carrier?

A

25%

B

50%

C

75%

D

1

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Q136

The opening of larynx is called

A

glottis

B

voice box

C

epiglottis

D

both B and C

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Q137

The proximal part of the oviduct is significant because:

A

Fertilization occurs here

B

Implantation occurs here

C

Placenta is established here

D

None of these

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Q138

If a cross section of a sarcomere is seen, each myosin is surrounded by how many actin molecules?

A

5

B

6

C

7

D

8

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Q139

The internal buds are known as which of the following?

A

Spicules

B

Choanocytes

C

Gemmules

D

both a and b

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Q140

Compared to gram negative bacteria, how many more membrane-bound organelles do gram positive bacteria contain?

A

0

B

1

C

2

D

3

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Q141

These animals have only left aortic arch in their circulatory system.

A

Crocodiles and mammals.

B

Birds and mammals.

C

Mammals only.

D

All of the above.

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Q142

Which of the following would not be expected during pregnancy?

A

Maintenance of the corpus luteum

B

Formation of the placenta

C

Blastocyst implantation

D

Formation of the corpus albicans

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Q143

Which of the following is NOT a bony fish?

A

Perch

B

Plaice

C

Catfish

D

Dogfish

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Q144

What part of the cell serves as an intracellular highway?

A

ER

B

Golgi apparatus

C

cell membrane

D

mitochondria

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Q145

An example of convergent evolution is best represented by which of the following?

A

Teeth of domestic dog, teeth of a wolf

B

Wings of *Geospiza magnirostris*, wings of *Geospiza fortis*

C

Wing of Hawkmoths, the wing of hawks

D

all of these

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Q146

Reversible inhibitors form Weak linkages with which of the following?

A

enzyme

B

reactant

C

product

D

substrate

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Q147

Which of the following is not spiral in shape

A

hyphomicrobium

B

Vibrio

C

Pseudomonas

D

Spirillum minus

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Q148

Storage form of lipids is

A

Esterified cholesterol

B

Glycerophospholipids

C

Triglycerides

D

Sphingolipids

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Q149

Of the following, which one is a light gathering structure?

A

Antenna complex

B

reaction center

C

photosystem

D

none of these

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Q150

When a hemophilia carrier woman marries a normal man, who among her offspring may be affected:

A

All her children

B

Half of her daughters

C

All her daughters

D

Half of her sons

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Q151

Which one of the following is a non-protein group covalently bonded to a few respiratory enzymes among others?

A

Nicotine adenine dinucleotide

B

Flavin adenine dinucleotide

C

Nicotinamide adenine dinucleotide phosphate

D

All of the above

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Q152

What is the approximate ratio of RNA and protein in a ribosome?

A

1:1

B

2:1

C

1:2

D

1:3

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Q153

Which of the following molecules binds to troponin during muscle contraction, triggering tropomyosin to move away from the actin binding sites and allowing the myosin head to form a cross bridge?

A

ATP

B

ADP

C

Calcium

D

sodium

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Q154

The left side of the body is controlled by:

A

left cerebral hemisphere

B

right cerebral hemisphere

C

Hippocampus

D

Corpus callosum

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Q155

The structures with a diameter less than 1mm are:

A

bronchioles

B

Bronchi

C

Alveoli

D

Air sac

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Q156

Conversion of ssRNA (-) to ssRNA (+) mediated by

A

DNA dependent DNA polymerase

B

. DNA dependent RNA polymerase

C

RNA dependent DNA polymerase

D

RNA dependent RNA polymerase

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Q157

What is your name?

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

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Q158

Where were you _____ at that time ?

A

going

B

goes

C

went

D

gone

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Q159

Excuse me. Could you _____ me the way to the town hall?

A

let

B

put

C

talk

D

tell

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Q160

The horse _____ (gallop) across the fields.

A

gallop

B

galloping

C

gallops

D

were galloping

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Q161

She returned after _____ hour.

A

a

B

an

C

the

D

no article

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Q162

If you _____ (start) at once you can reach by 6'o clock.

A

start

B

starting

C

starts

D

have started

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Q163

Either she or her friends ____ responsible for this accident.

A

is

B

are

C

will

D

may

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Q164

Which tense would you use for talking about next weekend?

A

Present

B

past

C

future

D

none of these

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Q165

affluent

A

careful

B

clever

C

wealthy

D

educated

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Q166

Can you _____ the tea and I'll get the cake myself.

A

depart

B

disturb

C

pour

D

feed

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Q167

My brother's birthday is _____ the 5th of November.

A

at

B

in

C

on

D

about

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Q168

He and _____ are great friends.

A

me

B

I

C

she

D

None

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Q169

Choose the correct spelling of the word

A

discribe

B

deskribe

C

describe

D

diskribe

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Q170

None of them ____ able to solve this question.

A

is

B

were

C

was

D

would be

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Q171

Choose the correct sentence.

A

When Sheila arrived she said, "please fix me some hot tea; i'm so cold!"

B

When Sheila arrived she said, "Please fix me some hot tea; Im so cold!"

C

When Sheila arrived she said, "Please fix me some hot tea, I'm so cold!"

D

When Sheila arrived she said, "Please fix me some hot tea; I'm so cold!"

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Q172

I love you. I can't the thought of ever losing you.

A

bear

B

bare

C

support

D

think of

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Q173

We missed our plane because we were late.

A

complex

B

simple

C

compound

D

compound-complex

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Q174

Statement The Government has decided not to provide financial support to voluntary organisations from next Five Year Plan and has communicated that all such organisations should raise funds to meet their financial needs. I. Voluntary organisations should collaborate with foreign agencies. II. They should explore other sources of financial support.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q175

Statements : All film stars are playback singers. All film directors are film stars. Conclusions : I. All film directors are playback singers. II. Some film stars are film directors.

A

Only conclusion II follows

B

Either I or II follows

C

Neither I nor II follows

D

Both I and II follow

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Q176

What is the common vowel in Apple and Banana?

A

E

B

P

C

A

D

M

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Q177

Statements Nutritious food is delicious and good for health. Apple is nutritious. Conclusions (I) Apple is good for health. (II) Delicious foods are nutritious.

A

Only conclusion (I) follows

B

Only conclusion (II) follows

C

Both conclusions follow

D

Both of them do not follow

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Q178

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q179

Statement: The government has recently fixed the fees for professional courses offered by the unaided institutions which are much lower than the fees charged last year. The parents of the aspiring students launched a severe agitation last year protesting against the high fees charged by the unaided institutions.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of independent causes

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Q180

The SI unit of charge is ?

A

Ampere

B

B. Coulomb

C

C. Ohm

D

Both A and B

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Q181

Statement: There is increase in water level of all the water tanks supplying drinking water to the city during the last fortnight. Most of the trains were cancelled last week due to waterlogging on the tracks.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of some common cause

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Q182

Directions : In each of the following questions a statement is given, followed by two conclusions. Give answer : Statement : Without reforming the entire administrative system, we cannot eradicate corruption and prejudice from the society. Assumptions : I. The existence of corruption and prejudice is good. II. There is enough flexibility to change the administrative system.

A

Only assumption I is implicit

B

Only assumption II is implicit

C

Either I or II is implicit

D

Both A and B

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Q183

Work done on a ceiling fan by gravity is

A

maximum

B

zero

C

minimum

D

infinity

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Q184

The displacement has:...

A

magnitude only

B

direction only

C

magnitude and direction

D

no unit

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Q185

The direction of the restoring force is always towards:

A

right hand

B

up ward

C

rest or mean position

D

extreme position

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Q186

When an object moves on a circular path, then...

A

its displacement is constant

B

its displacement changes due to change in distance

C

its displacement changes due to change in direction of motion

D

its displacement is always zero

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Q187

The minute hand of a large clock is 3.0 m long. What is its mean angular speed

A

 $1.4 \times 10^{-4} \text{ rad s}^{-1}$

B

 $1.0 \times 10^{-3} \text{ rad s}^{-1}$

C

 $5.2 \times 10^{-3} \text{ rad s}^{-1}$

D

 $1.7 \times 10^{-3} \text{ rad s}^{-1}$

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Q188

A potential difference of 10 V is applied across a conductor whose resistance is 2.5 ohm. What is the value of current flowing through it?

A

4A

B

2A

C

6A

D

10A

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Q189

Face of coil having clockwise current

A

behaves like north pole

B

behaves like south pole

C

becomes magnet of varying poles

D

does not behaves like magnet

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Q190

What is the wavelength of the wave if the phase angle between two points of the medium is $3\pi/4$ and they are separated through a distance of 3 cm?

A

8 cm

B

9 cm

C

1 cm

D

12 cm

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Q191

Which one is natron?

A

 Na_2CO_3

B

 $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$

C

 $\text{Na}_2\text{CO}_3 \cdot \text{H}_2\text{O}$

D

 NaHCO_3

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Q192

In Pakistan ethanol is prepared commercially by

A

Distillation

B

Fermentation

C

molasses

D

all of above

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Q193

Independent Molecules of NaCl exist as

A

Solid

B

liquid

C

Vapours

D

Gas

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Q194

If the difference of electronegativity is 1.7 or more than that, the bond formed is said to be

A

ionic bond

B

covalent bond

C

metallic bond

D

chemical bond

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Q195

Which of the following compound shows more H-Bonding?

A

 CH_3OH

B

 $\text{CH}_3\text{CH}_2\text{OH}$

C

 $\text{C}_6\text{H}_5\text{OH}$

D

 $\text{C}_6\text{H}_{11}\text{OH}$

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Q196

During S_N1 mechanism, nucleophile can attack on the halogen carbon?

A

From opposite side of leaving group

B

From front of leaving group

C

From both sides

D

None of these

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Q197

Cyanohydrins when reacted with mineral acid produces _____?

A

Beta Hydroxy carboxylic acids

B

Alpha hydroxy carboxylic acids

C

Carboxylic acids

D

Unsaturated acids

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Q198

In electrolysis of NaNO_3 , Nitrate ions are not discharged but

A

Hydroxide Ions are discharged

B

Hydrogen Ions are Discharged

C

Sodium Ions are Discharged

D

None of these

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Q199

In competitive inhibition, the two things that binds to enzyme active site are?

A

substrate

B

inhibitors

C

catalyst

D

both A and B

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Q200

What is a group of 8 cocci bacteria called?

A

Diplococci

B

Tetrad

C

Octococci

D

Sarcina

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Q201

The book name in which Darwin published the theory of evolution

A

the origin of species by natural selection

B

the origin of species

C

the evolution of species

D

the evolution of species by means of natural selection

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Q202

In alcoholic fermentation Pyruvic acid is broken down into?

A

Acetaldehyde

B

Methyl alcohol

C

ethyl alcohol

D

Lactic Acid

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Q203

The electrons from Fd to NADP are transferred by which enzyme?

A

NADP Oxidase

B

NADP reductase

C

ATP synthase

D

both a and b

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Q204

A non-protein chemical compound which is required for protein's biological activity is?

A

coenzyme

B

cofactor

C

DNA

D

RNA

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Q205

Choose the correct sentence.

A

Samar bought an apple, an orange and an pear.

B

Samar bought an apple a orange and a pear.

C

Samar bought an apple, an orange and a pear.

D

Samar bought a apple, an orange and a pear.

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Q206

When I go swimming, I have to keep my eyes closed underwater.

A

complex

B

simple

C

compound

D

None

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Q207

Statement Should the public sector undertakings be allowed to adopt a hire-and-fire policy? Arguments (I) Yes, as this will help the public sector undertakings to get rid of non-performing employees and will also help to reward the performing employees. (II) No, the management may not be able to implement the policy in an unbiased manner and the employees will suffer due to the high-handedness of the management.

A

If only argument I is strong.

B

If only argument II is strong

C

If both I and II are strong.

D

If neither I nor II is strong

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Q208

The composition of the white matter of spinal cord is:

A

myelinated dendrite

B

non-myelinated dendrite

C

non-myelinated axon

D

myelinated axon

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Q209

What is the product of the ETC in animals?

A

oxygen

B

carbon dioxide

C

water

D

all of these

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Q210

_____ camel is the ship of the desert.

A

A

B

An

C

The

D

No article

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